



# **Seed Development: OMICS Technologies toward Improvement of Seed Quality and Crop Yield: OMICS in Seed Biology**

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# Seed Development: OMICS Technologies toward Improvement of Seed Quality and Crop Yield: OMICS in Seed Biology

## Seed Development: OMICS Technologies toward Improvement of Seed Quality and Crop Yield: OMICS in Seed Biology

The book is about the seed development in the model and crop plants. Seed development is a key step of the plant life cycle that determines the nutrient value of seeds – the life for human civilization, growth, and development. The nutrient value of seeds is mainly due to storage reserve products such as carbohydrates, lipids (triacylglycerols), and proteins. The book primarily focuses on application of the 21st century high-throughput technologies transcriptomics, proteomics, metabolomics, and systems biology in near complete understanding of the various processes involved in seed development in different crop plants. The book reveals how such technologies have revolutionized our understanding of the multilayer processes and regulations involved therein by generating large-scale datasets. Accumulated datasets provide basic knowledge to develop integrated strategies to eventually improve the nutritional value of plant seed and crop yield, a critical goal in food security issues around the globe.

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